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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/967,240	09/28/2001	Sanu K. Mathew	884.448US1	6550
21186	7590 12/14/2005		EXAMINER	
SCHWEGM	IAN, LUNDBERG, WOI	DO, CH	DO, CHAT C	
1600 TCF TC	OWER			
121 SOUTH EIGHT STREET			ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55402			2193	

DATE MAILED: 12/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comment	09/967,240	MATHEW ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chat C. Do	2193				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>06 S</u>	entember 2005 and 05 October 2	2005				
· <u>-</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-37</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-37</u> is/are rejected.						
7) Claim(s) <u>rand 3-37</u> is/are rejected. 7 Claim(s) is/are objected to.						
8) Claim(s) are subjected to.						
, <u> </u>	r diodion roquiomone.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

- 1. This communication is responsive to Amendment filed 09/06/2005.
- 2. Claims 1 and 3-37 are pending in this application. Claims 1, 8, 22, 28, and 33 are independent claims. In Amendment, claim 2 is cancelled. This Office Action is made non-final after a RCE filed 10/05/2005.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Siers et al. (U.S. 6,269,386).

Re claim 1, Siers et al. disclose in Figures 1-6 an adder to sum two binary numbers (e.g. abstract and col. 1 lines 50-68), comprising: a first circuit (e.g. Figure 1 with all P6 circuits) having a plurality of carry-merge stages connected in a series (e.g. operate as series dependent as seen in Figure 2), the first circuit adapted to generate a group of carries (e.g. all the output from P6), the group of carries including a final carry generated by a final stage of the series (e.g. C_{out}^{i} in Figure 3 and col. 2 lines 32-47), a first carry generated by a first stage of the series (e.g. 116 from 102 to 110) and a second carry

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generated by one of the plurality of stages of the series located between the first and final stages of the series (e.g. output of 108); a second circuit (e.g. 116 for generating carry) connected to the first circuit and having a plurality of stages (e.g. all P6s circuits), the second circuit connected to receive the final carry and the second carry and adapted to produce a pair of conditional carry (e.g. 116 connects C_{in} and output of 108), the second circuit adapted to generate additional carries missing from the group of carries to provide one carry for every group of a predetermined number of bits of the two binary numbers (e.g. C_{out} of to C_{out} wherein n can be a predetermined number of bits as 4 bits per group); at least one sum generator (e.g. all CSS circuits in Figure 1) connected to the first circuit (e.g. all P6s) and the second circuit (e.g. 116 circuit) and connected to receive the first carry (e.g. outputs of all P6s) and one of the pair of conditional carry, the sum generator adapted to generate a pair of conditional sums (e.g. Figure 5); and at least one device adapted to select between the pair of conditional sums in response to one of the group of carries (e.g. Figure 5 through 502).

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Allowable Subject Matter

- 5. Claims 8-37 are allowed.
- 6. Claims 3-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

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7. Applicant's arguments with respect to claim 1 have been considered but are moot in view

of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The

examiner can normally be reached on $M \Rightarrow F$ from 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C. Do

Examiner

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December 6, 2005

KAMALI CHAKI

SUPERMIN

TECHINOL -